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(21) International Application Number: PCT/US99/20541 (22) International Filing Date: 7 September 1999 (07.09.99) (30) Priority Data: 60/099,487 8 September 1998 (08.09.98) US (71) Applicant (for all designated States except US): THE GOVERNMENT OF THE UNITED STATES OF AMERICA represented by THE SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES [US/US]; Bethesda, MD 20892 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): HAWKINS, Mary, E. [US/US]; 5 Eldwick Court, Potomac, MD 20854 (US). PFLEIDERER, Wolfgang [DE/DE]; Lindauer Strasse 47, D-78464 Konstanz (DE). BALIS, Frank [US/US]; 6310 Rockhurst Road, Bethesda, MD 20817 (US). (74) Agents: SNYDER, Joseph, R. et al.; Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th floor, San Francisco, CA 94111-3834 (US).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published With international search report.
(54) Title: PTERIDINE NUCLEOTIDE ANALOGS (57) Abstract <p>The invention provides pteridine nucleotides of formula (1) which are highly fluorescent and which can be used in the chemical synthesis of fluorescent oligonucleotide. The invention further provides for fluorescent oligonucleotide comprising one or more pteridine nucleotides. In addition the invention provides for pteridine nucleotide triphosphates which may be used as the constituent monomers in DNA amplification procedures. The pteridine nucleotides are more stable and possess higher quantum yields than structurally similar pteridine nucleotides.</p> <div><p style="text-align: right;">(1)</p></div>		